

# Dormitories get longer parietals

**By Mark Bolotin**  
The approval of extensions of parietal hours for the dormitories was the major decision to come from a meeting of the Academic Council Tuesday, Nov. 22. In addition to the approval of longer parietals, a "first" was established at the meetings, as three students attended the Council's meeting.

**New hours**  
Open house hours have been lengthened from 4 pm until 10 pm on Mondays through Thursdays to 4 pm until midnight. Hours on Fridays and before holidays will be noon until 2 am instead of 4 pm until 1 am. Saturday parietal hours will still start at noon, but will last until 2 am, rather than 1 am. Sunday

## Frosh mid-term marks

Freshmen intermediate grades will be available through faculty councillors after 9 am, Monday, December 5, 1966.

## Kindleberger speaks

### New England execs meet to discuss foreign industry

Over 100 corporate chairmen, presidents and other officials from New England gathered in Kresge Auditorium for a panel discussion on the problems and potential of doing business in other countries, Monday, November 21.

Professor Charles P. Kindleberger, Chairman of the faculty, said that the American firm operating in Europe's Common Market possessed some important advantages — especially flexibility and

## Esso Foundation grants to help Courses V, X

MIT will receive four of the 350 grants being given by the Esso Education Foundation, which is spending more than \$2,580,000 nationwide.

One of the awards, to the chemistry department, will be a capital grant. Two separate science awards will be in the fields of chemistry and chemical engineering. MIT will also receive a special grant for industrial relations studies.

## Kresge 'Marat/Sade' show draws over 1400 people



Photo by Art Kalotkin

Peter Weiss' 'Marat/Sade' was performed Monday night, November 21, before an over-sold out audience of over 1400. Ticket holders were admitted beginning an hour before curtain, and general admission was opened 10 minutes before curtain. The play was produced by The Theatre Company of Boston. The above scene shows the Marquis de Sade, played by F. M. Kimball, sitting among the chorus, consisting of 4 of the inmates of the Asylum at Charenton.

hours will remain noon until midnight.  
The major change in parietal hours is their beginning at noon at Fridays and before holidays. This extension was granted primarily for the benefit of students who have a date for an entire weekend. A similar extension for Mondays through Thursdays was not approved, because it was felt that the major use of such an extension would be for study dates, which could easily be held in any of the libraries.

Institution of the new parietal hours will be worked out with Kenneth R. Wadleigh, Dean of Student Affairs, and individually with each dorm. This will allow each dorm to take advantage of the more liberal hours, as soon as adequate enforcement is established.

UAP Frank March '67, Jeff Wiesen '67, President of Dormitory Council, and Mike Telson '67, President of the Student Committee on Educational Policy, were the three undergraduates attending the meeting. They introduced to the Council information

on a long-range planning committee, possible housing moves, and changes in reading period and length of academic term.

The long-range planning committee is being established by In-scomm to look into the space needs for activities and athletics over the next ten or fifteen years. The committee, which is to be chaired by Paavo Pykkonen '67, presently Student Center Committee Chairman, will work closely with the newly-formed academic committee, the Committee on Research in Space Planning (CRISP), which is chaired by Provost Dr. Jerome Weisner.

The discussion of housing moves centered around the housing conference to be held this week. Specific topics mentioned include the possible transfer of students living

(Please turn to Page 2)

## Furor continues

### Decision due Thursday on Inner Belt restudy

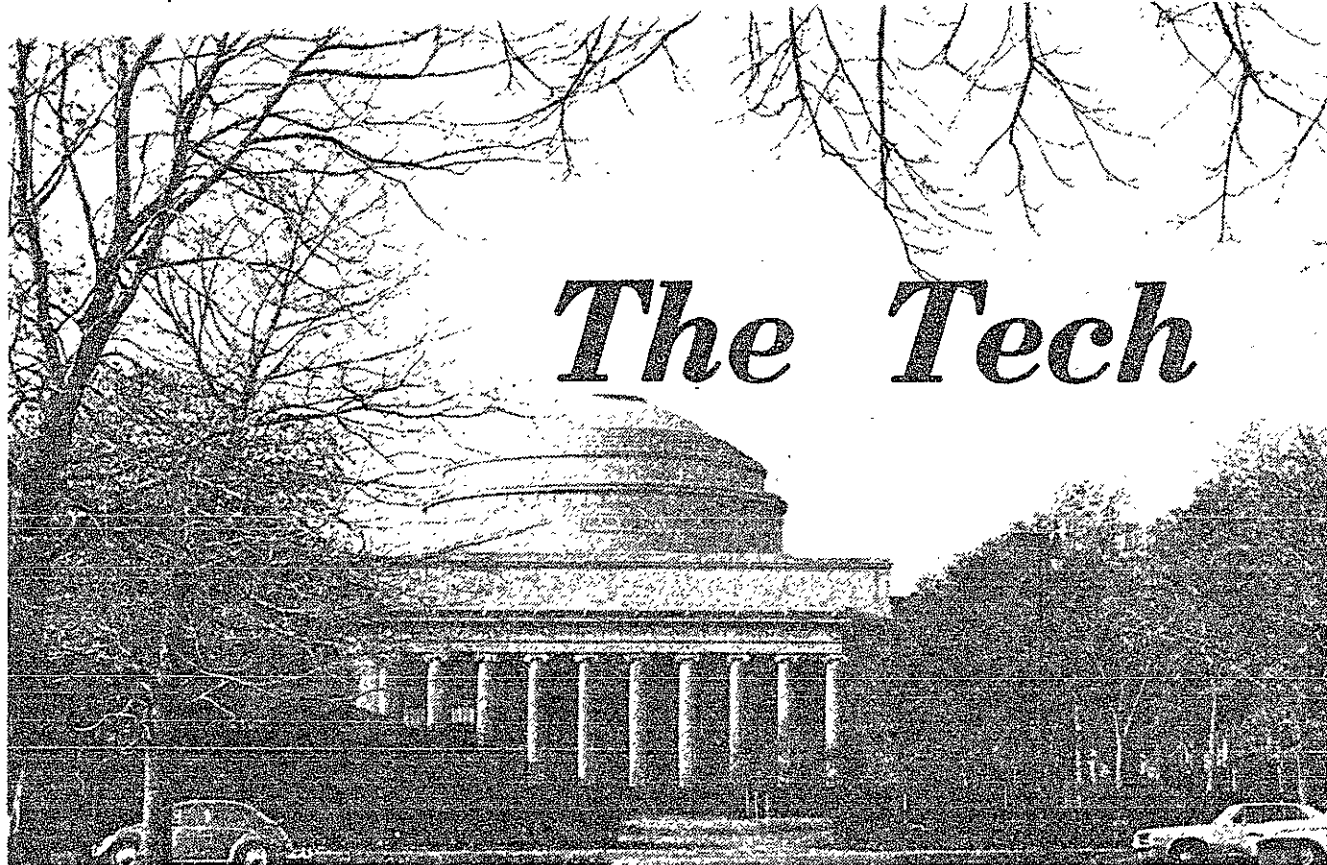
**By Barry Weiss**  
This Thursday, December 1, the Department of Public Works will announce its decision concerning the final routing of the Inner Belt through Cambridge. This study was ordered by Governor Volpe. Prior to the November elections. As of now, the Belt, is slated to run along Brookline and Elm streets.

Last week, members of the Cambridge Committee on the Inner Belt discussed their views with Harvard officials, hoping to get a statement concerning the placement of the Inner Belt. Charles P. Whitlock, spokesman for Harvard, said the University would make a statement concerning the lack of coordination in

transportation ventures, but would avoid any political decision-making.

Mrs. Michael Benfield, a leading spokesman in behalf of Cambridge citizens, now hopes to talk with Boston University officials. Thus she hopes to put pressure on MIT, forcing the Institute to take a stand. She feels that if B. U. will come out against the belt, she will put more "leverage" on MIT. An Institute position against the Brookline-Elm route would greatly augment her stand for an alternative which passes through Tech instrumentation labs.

Earlier this month, Mrs. Benfield staged a sit-in demonstration before President Howard Johnson's office.



Vol. 86, No. 48

Cambridge, Massachusetts, Tuesday, November 29, 1966

Five Cents

## Faculty spotlight

### Gray studies diodes, frosh

**By Dave Kaye**

The dynamic behavior of thermoelectric devices and the failure rate of MIT freshman in 8.01 appear to be totally disparate problems, and at first glance, it would seem unlikely that the same individual should be concerned with both such topics. Yet, as associate professor of electrical engineering and as associate dean of student affairs, Dr. Paul E. Gray finds himself confronted with these and similar problems.

Author of the text, *The Dynamic Behavior of Thermoelectric Devices* and co-author of three of the seven volumes of the *Semiconductor Electronics Education Committee's* series, Professor Gray's interest in semiconductor physics crystallized during his graduate work here at MIT so that today he is an expert in the physical electronics and modeling of semiconductor devices.

#### Freshman first concern

Professor Gray has served as chairman of the Freshman Advisory Committee and, his present work as associate dean of student affairs he is also dealing primarily with problems confronting freshman. For example, he is presently attempting to analyze the success of the curriculum changes initiated last year. Preliminary studies based on the rate of failure reveal a significant, beneficial impact on the class of 1969.

Despite these encouraging results, Dr. Gray is quite aware of the difficulties involved in educational planning and analysis. He points out, for instance, that in this field about the time you understand what has happened, the situation has changed. As a

result, he remarks: "I sometimes wish I were back in a lab with a voltmeter."

#### Notes Changes at MIT

As an undergraduate at MIT Professor Gray was president of Phi Sigma Kappa fraternity. In considering the evolution of the MIT environment since that time (about 1954), he refers to changes in both the student body and the dormitories. First, while in the past the goals of each student were "pretty well specified," at present, "the breath of interest" displayed is much greater; "more and more students are using MIT for the kind of education they might get at a liberal arts college."

Moreover, the composition of the student body has undergone a distinct change in that in the past there were only 10 or 12



Dr. Paul E. Gray, Associate Professor of Electrical Engineering and Associate Dean of Student Affairs.

coeds in each class, a group which Dr. Gray calls "way below critical size, having no real impact on the community," while there are "now enough so that

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### Siegal to talk at SSRS meeting; Ambrose, Blesser will also speak

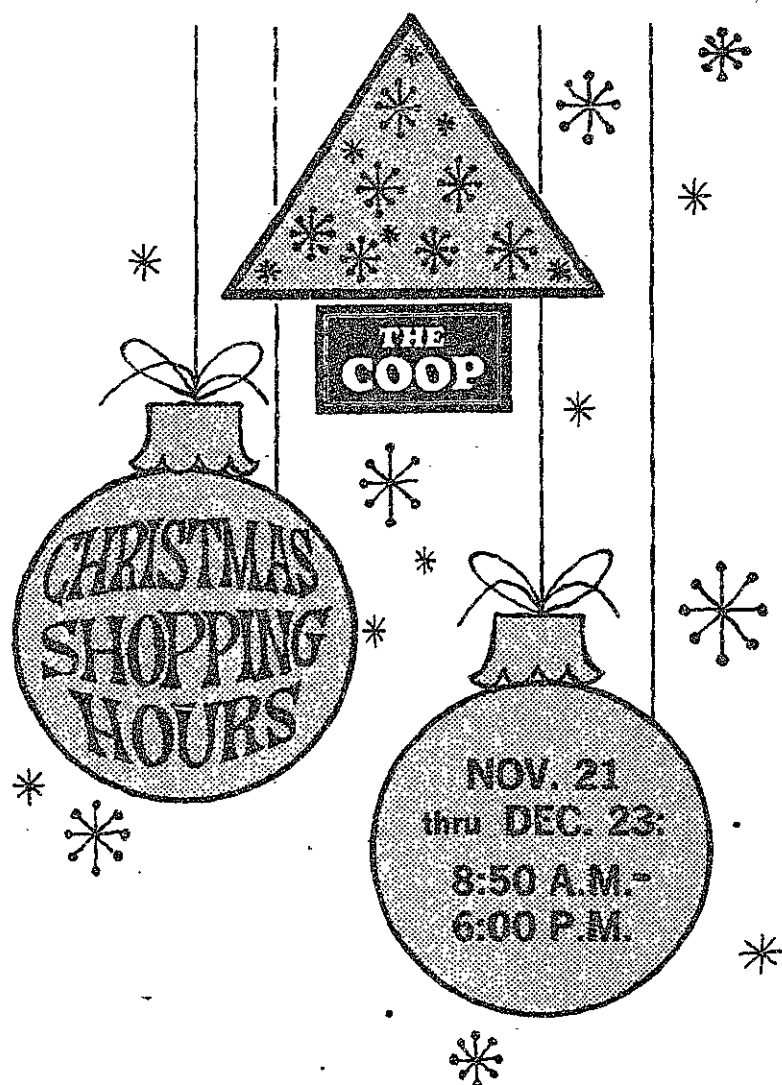
Armand Siegal, Professor of Physics at Boston University, will discuss his observations of scientists and engineers in French politics as part of an international survey of the MIT Society for Social Responsibility in Science. The survey will be held at 8 p.m., Tuesday, December 6 in the Vannevar Bush Room, 10-105.

Barry A. Blesser, MIT instructor in Electrical Engineering will also speak of his observations this summer of the social actions of German scientists and engineers. Professor Warren Ambrose of the MIT math department is expected

to speak on the recent government-university conflict in Argentina, and its implications for the social responsibility of Latin American scientists.

Earlier in the day, Professor Norman C. Dahl, of the Mechanical Engineering Department, will moderate a panel on "The Effects of Classified Research on Student Life." The discussion will take place at 4 p.m., Tuesday, December 6, also in the Vannevar Bush Room. The panelists will include Professors Yao T. Li of the Aeronautical Department and Professor David H. Frish of the Physics Department.





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## Term length discussed by Academic Council

(Continued from Page 1)

ing in East Campus to Ashdown House and the destruction of East Campus to allow room for academic buildings, following the construction of the proposed Graduate Center.

Student attendance at the Academic Council meeting grew out of the meeting of the Academic Council held on Nov. 2, at which time it was suggested that more student involvement in faculty decision-making be encouraged.

### Advertisement

The Bible says: In the beginning was the Word, and the Word was with God, and the Word was God. And the Word was made flesh, and dwelt among us, (and we beheld His glory, the glory as of the only begotten of the Father,) full of grace and truth. John 1:1, 12.

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## 'Topics in Technology'

## Laser to aid magnification

The future development of X-ray lasers will make it possible to build microscopic devices with useful magnifications better than those now possible with electron microscopes, according to Ronald H. Cordover of the Department of Physics and Electrical Engineering.

Cordover spoke to some 400 high school students during a "Topics in Technology" lecture Friday, Nov. 18, and again Saturday morning.

"Although there are some difficulties to be solved, the problem of constructing lasers that will emit such short wavelengths is certainly not insoluble."

Such a microscope device, he

explained, would make use of holography, a kind of lens-less three-dimensional photography. In laser holography, laser light is used not only to produce the picture, but also to "play it back" in three-dimensional form.

"One of the interesting things about this type of photography is that the picture can be recorded at one wavelength and played back at another, longer wavelength, resulting in magnification of the image."

The need for a coherent light source with an extremely short wavelength — preferably in the X-ray region of the spectrum — stems, he said, from the fact that magnification is dependent on the ratio of the two wavelengths used.

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## Compass seminar to be held today

"Isotopic Evidence for Cosmic Dust" is the topic of the Compass Seminar to be held on Tuesday, November 29, at 4:00 pm in room 54-100. Dr. E. L. Fireman of the Smithsonian Astrophysical and Harvard University Observatories will be the speaker.

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Keenan to receive ASME award


Joseph H. Keenan, Professor of Mechanical Engineering, has been awarded the distinction of Honorary Member of the American Society of Mechanical Engineers. He will be presented with a special certificate at the banquet held during the Winter Annual Meeting of the Society being held in New York City today.

Keenan is a former head of the Mechanical Engineering Department.

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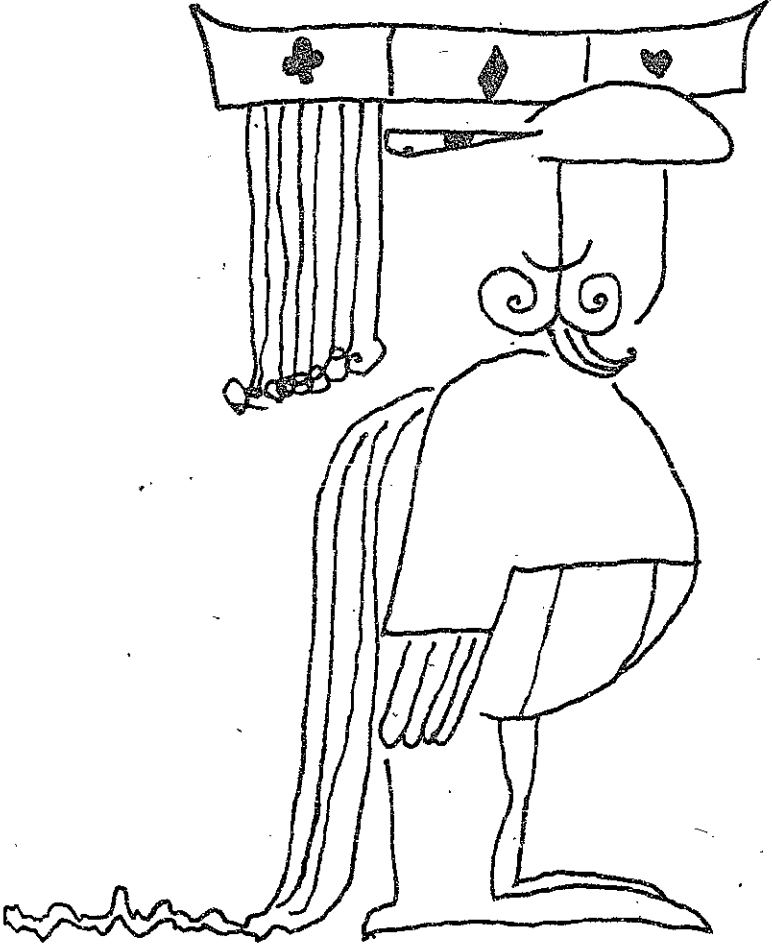
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College World

Caltech Mudeo mimics Field Day; Co-ed housing favored at Minnesota

By Karen Wattel

California Institute of Technology has its own form of Field Day called Mudeo. Like ours, it is a freshman-sophomore rivalry, judged by the junior class, in their case, the class president however, he, too, becomes part of the mess at the end as the losers try to "vent their anger and filth upon him." In gratitude the winners try to "save his bod."

Five events are scheduled. A tug of war with the losers being pulled through the mud is first. The next event is a sack race where "all invariably eat the muck at least once." Piggy-back wrestling at its dirtiest is the event from which the competition derives its name. The fourth event was wheel-barrow pushing through the mud. And last but not least was a contest to see who can rescue the most tires from a swamp. If only because of the swamp, it is dirtier than the glove fight here. As the class of '69 cheated, the class of '70 triumphed.

ever, were willing to move to another corridor or house if their own became co-ed.

"Lower the Drinking Age? . . . Jet-bombed was elected Mayor of Durham at the University of New Hampshire as \$400 was raised for orphans. Votes were 50c each. He came out for motherhood, apple pie, hot dogs, and T-Bird wine. He also said, "I think that we should lower the drinking age to twelve. We teenagers want to drink, right? I say let's not forget little children. . . . The Great Society will be a staggering success!"

The University of Oregon Emerald and the Oregon State Daily Barometer made an agreement that the newspaper of the losing team in their schools' football game would come out under the masthead of the winner. For now, The Tech will remain The Tech.

Co-ed Housing

Students at the University of Minnesota are asking the school to consider coeducational housing. According to a poll taken there on the subject last year, three-fifths of the students responding said they would prefer to live in co-ed halls. Only a slim majority, how-

Toilet Paper red tape

Angry coeds at Worcester Polytechnic Institute have started a crusade demanding the abolition of toilet paper roller rod notches. Cries of "longer white tape, not red tape" resound as they complain that the "regular channels (of communication) are clogged with red tape."

Pajama Parade

To kick off Lafayette Weekend, Lehigh University had a pajama parade across town to the women's dorms of Moravia College. Once there, the freshmen serenaded the girls and asked for tokens from them. Roses were presented by the Lehigh freshman class president to an officer of the Moravian freshman class. The girls pulled down their window shades and turned off their lights to mark the parade's end.

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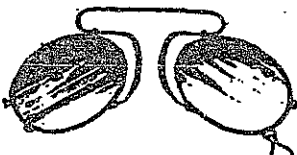
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## Growing pains

One of the Institute's most pronounced characteristics is the fact that it's constantly expanding, into new buildings, new academic fields, and new roles on the national scene. This continual growth is a sign of a healthy and vital university; unfortunately it has not been accomplished without growing pains.

Nowhere are these growing pains more acute than in the general Institute-run supporting structure that serves the various laboratories and academic departments. One classic example is the Library system, which has to be the target of more gripes than any other identifiable entity on the MIT scene. The next two places on the gripe list are probably occupied by the Office of Laboratory Supplies and the Physical Plant.

We don't pretend to have the solution to the library problem; short of a massive influx of cash we're not sure that there is one. However, we do have a suggestion which might enable both Lab Supplies and Physical Plant to come a lot closer to meeting the needs of the students and staff.

It seems to us that both these organizations have been allowed to function without any real knowledge of how they can best serve the expanded research and teaching efforts of the Institute. Lab Supplies for instance doesn't seem to have any real idea of what it should stock. In fact that organization doesn't seem to have grasped the idea of an inventory. A simple request like one dozen 10 cc beakers usually can't be filled from stock. Almost everything the average researcher might want has to be ordered.

Physical plant's problem is slightly different. The work they do is usually good, but it's never coordinated. A lab may get its water lines right away, and then wait three months for the electrician to install power. Meanwhile there's another lab somewhere with power and no water.

MIT claims to have the best school of industrial management in the world. It also has a new president with a strong background in management. This would seem like a great opportunity to use some of that know-how and power to revamp and revitalize these two essential Institute businesses.

# THE TECH

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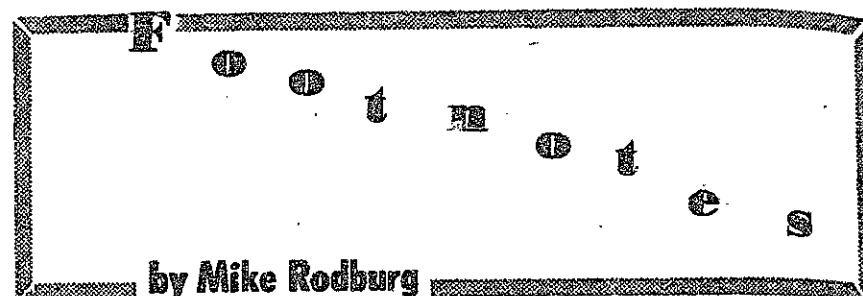
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by Mike Rodburg

121. With rank one acquires that indispensable God - send known as a secretary. At the Institute, the our-girl-Fridays seem to have one thing in common, a name. The secretaries of President Johnson, Chairman Killian, and UAP March all are called Betty. They are Betty Whitaker, Betty Pigott and Betty Hendricks, respectively.

122. What could not be settled on the gridiron seems doomed to be settled by for-ensics. The debating teams of Michigan State and Notre Dame will engage in the contest, Resolved: Our team is number one.

123. The new rowing tank

and a knowledge of crew provided Jesse Lipcon '65 with material for his master's thesis in Course VI. Entitled "Instrumentation and Control of the MIT Rowing Tank," the paper describes how the tank simulates actual conditions as it is monitored by computers and electronic data-gathering devices.

The apparatus measures factors of strength and coordination so that the two may be combined for maximum effect. Flashing lights indicate when a man is stroking early or late, or changes in oar size and body weight can be gauged. Lipcon is now involved in building simulators and trainers for space missions.

## Kibitzer

By Mark Bolotin

North  
♠ K J 10 8 4 2  
♥ K J 3  
♦ Q 6  
♣ K 2

West  
♠ Q 9  
♥ 5 2  
♦ J 7 5 4 2  
♣ Q 10 6 5

East  
♠ A 7 6 3  
♥ A 10 9 8 6 4  
♦ A 9  
♣ 7

South  
♠ 5  
♥ Q 7  
♦ K 10 8 3  
♣ A J 9 8 4 3

Bidding  
East South West North  
1♥ 3♣ Dbl. Pass  
Pass Pass

Opening lead: Spade Queen

Declarer was able to induce the defenders to defend rather shoddily and then managed to correctly guess the location of the oppositions' strength in order to make his doubled contract.

The bidding of the hand was questionable, at best. East's opening bid of one heart was quite normal. However, with half of his strength outside the club suit, with a side four-card diamond suit, and with a trump suit so full of holes, South might well have avoided making the weak jump-overcall. West's double of three clubs made South's bid look good by comparison. Although he can be fairly sure of being able to set three clubs, he hasn't the high-card strength either to double if North runs to another contract or to help partner if he is unable to stand for the double.

West's opening lead of the spade Queen misled declarer, who was quite sure that it was a singleton. Since he did not wish to be forced

in spades, declarer ducked the trick in hope that East would not overtake and return a spade to set up trump tricks for West. West's Queen won, and he shifted to the five of hearts. Declarer won the heart lead in his hand. He decided that, with so little high-card strength, West must have at least four trumps to the Queen-ten. Attempting to avoid two trump losers, in case West held five trumps, South led the eight of trumps and, when West neglected to cover with the ten, let it ride around. The eight won, and declarer continued with a trump to dummy's King in order to cash a heart for a diamond discard.

West ruffed the heart, but did not gain a trump trick because of his misplay in the trump suit at trick four. To declarer's great surprise, West returned a spade from what declarer had thought was a singleton Queen. South ruffed the spade, pulled the remaining trump, and paused to consider the diamond suit. West surely had doubletons in each major suit and a four-card club suit.

Consequently, East had a doubleton Ace of diamonds. If his small diamond was the Jack, declarer can pick up the diamond suit with only one loser by playing the Queen and King to drop the Jack and establish the ten. If East's small diamond was the nine, South must lead the ten of diamonds toward the dummy and duck it to East's Ace-nine, thus finessing for West's Jack. South decided that West must have more than two Queens and a four-card trump suit for his double. As a result, he led the diamond ten around to East's Ace-nine.

## Letters to The Tech

### Left out

To the Editor:

I wish to complain about the fact that as MIT's only expert in 20th century German literature I was unable to obtain a ticket for the Marat/Sade performance.

When early Wednesday morning all tickets were gone in the lobby of Building 10 I sent a note to the LSC explaining my special interest and inquiring how to go about getting a ticket. There was no reply.

When I finally contacted the young man in charge about one hour before curtain time he said he had one but would be unable to hold it for the one-half hour or so that it would take me to get to Kresge Auditorium.

I had intended to discuss the play with the students in my two German literature subjects, all of whom I had urged to attend.

Martin Dyck

Professor of German and Humanities

### Slob problem

To the Editor:

I am writing in reference to "The Slobs Take Over," an editorial in your November 22 issue.

We librarians are very much bothered by the abuses of the Student Center Library which you point out. There is no question but what the monopolizing of carrels by people who go away and leave them cluttered with their own notebooks, jacket, and toothbrush, is a thoughtless, selfish act. Using a second chair to put your feet on when there are not enough seats to go around is more of the same. Sleeping on the sofas is unattractive, snoring is worse, but how are these things to be controlled?

You suggest that "since the

library staff is either unable or unwilling to control the problem,"

you feel that "the students should start a campaign of slob control on their own." Further on you suggest that the library staff should spend "... a lot more time controlling some of the abuses going on inside the library."

Does "The Tech" really want to suggest that some member of the library staff wake up the sleepers, make people take their feet off the chairs, and dispossess those that camp in the carrels? Of all our libraries, that in the Student Center has been the one in which student committees have been most active in planning. The feeling has often been expressed that the Student Center is to be oriented to the students' needs and that they should have a major voice in everything concerning it. Full cooperation between the student committees, the architect, and the library staff has resulted in a beautiful and practical working environment. Let us continue this co-operation and have the problem solved by the Student Center Committee or the SCEP Library Committee or both. If they will come up with some rules, we will cooperate in enforcing them.

You mention that we should get the texts back to the shelves faster and this is true. The problem is shortage of staff. The use of the library has grown phenomenally. A year ago when the library opened 3,000 people a week used it. In January when I had to make out the budget for this year the number was 5,000. Neither I nor anyone ever dreamed that this fall it would be over 11,000 a week. It is going to take a little time to get the extra staff

but we will do it as fast as we can.

Director of Libraries  
William N. Locke,

### Ideas orally

To the Editor:

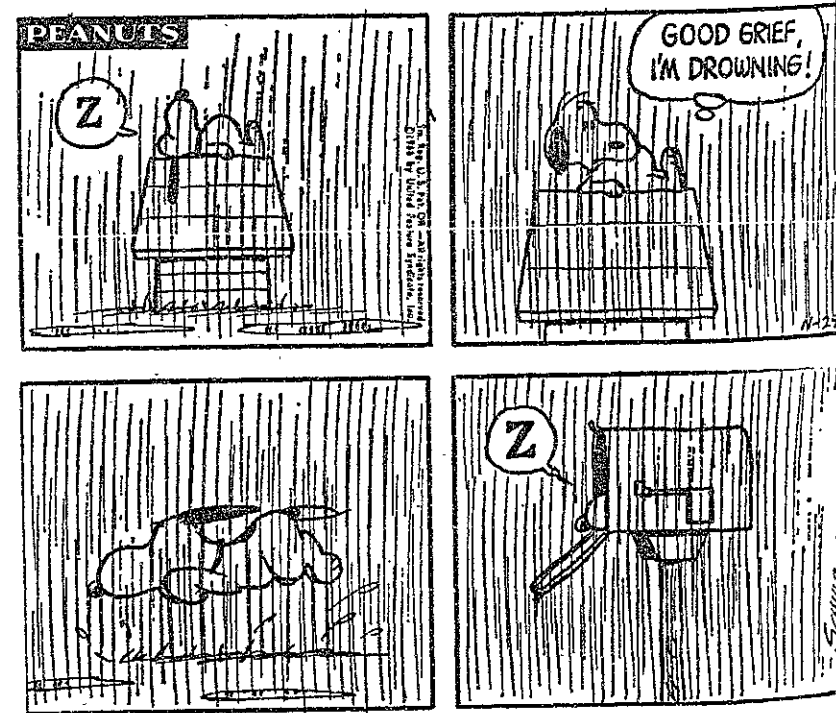
I recently attended two two-hour meetings at which students presented oral reports based on laboratory work done during the first eight weeks of the term. The research was faculty-supervised, but the oral presentations were made by undergraduates of sophomore or higher class standing. Yet with few exceptions, these reports were of the calibre of those one would expect in a high school classroom.

Let me clarify my point. The following mistakes, all of them serious in an oral report, occurred frequently in the course of the presentations:

1. Written texts were read word for word.
2. Students looked only at their notes, or, even worse, only at the board.
3. Voices were so atonal as to lull several listeners (including professors) to sleep.
4. Speakers' body movements (gestures) were limited to standing up and sitting down before and after the report.
5. All details, including complicated derivations, were put on the board.

What is indicated by this experience? Most obviously, as demonstrated by this cross-section of about twenty-five students, many students at MIT cannot deliver an effective talk. Yet President Johnson, in his Inaugural Address, (and former President Stratton, at his inauguration), told us that MIT is making an effort to im-

(Please turn to Page 6)



## THE ISSUE:

## DOES BUSINESS DEMAND A TEAM EFFORT?

☉☉... A necessary chain of command insuring organizational efficiency by sacrificing individual creativity and independent action. ☉☉

—James Hill, Harvard University

Dear Mr. Hill:

If, by this statement, you imply that business demands a team effort, you are right.

The days of the solitary worker are over. There are only a handful of endeavors—basic research, for example, or the arts—where the individual can go most of the way alone. Eventually, even this man needs other men to help get his efforts to the public. An engineering team to extend his discovery into practical channels. A publisher for his book. An orchestra for his symphony.

Our society is a system composed of a great variety of sub-systems. College, neighborhood, business, profession, social, and leisure activities all fall into one or more of these sub-systems. Each system needs some degree of structure and organization if it is to function and not collapse. This structure, then, is your "necessary chain of command."

It is obvious, however, that chains of command, per se, do not create organizational efficiency. They can lead to bureaucratic haggling and red tape. Ask anyone who has encountered some of the rules, regulations, and procedures of some government agencies.

Recognizing the problem of over-organization, most companies have spent considerable time and effort studying systems and trying to build in as much flexibility and fluidity as possible. As a general rule, the bigger the company, the more it is concerned with this problem.

Today, most businesses function with many different chains of command—a few stretch all the way to the top. And, if you look at a company's organization chart you'll usually find a number of horizontal decision-making lines linking the different departments and divisions that function as part of the corporate team.

Think what would happen if I had to pass on every important decision made at Motorola—I'd be swamped. The bulk of the company's decision-making occurs at other levels. That's what executives are for—to make decisions and to assume the basic responsibility for those decisions.

At Motorola, we've established smaller, decentralized, highly autonomous units. One result has been to foster and increase individual responsibility and participation. With a few exceptions, top management sees its job as providing the framework for decision-making—pointing in a particular direction and letting others decide how best to get there.

This type of organization is not a secret

## TELLING IT LIKE IT IS

*This is the fourth round in an exchange of ideas and opinions between Robert W. Galvin, Motorola Chairman, and James Hill, Harvard student. The subject: business. What do college students think about the business world? How does it measure up to other career choices? What are its strengths and weaknesses?*

*Mr. Galvin's words answer one of the many issues raised by Mr. Hill in a letter carried in this paper. Shortly, Mr. Hill will have an opportunity to rebut and the dialogue will continue as long as there are informative points to be made.*

*This and 5 other dialogues are appearing regularly in college papers throughout the country.*



known only to Motorola. Most modern companies have flattened out the traditional, pyramid-like organizational structure.

Interestingly, this kind of flexible, team-oriented approach to organization structure is almost tailor-made for a younger executive. It provides a dynamic framework for him to function side by side with older, more seasoned men and, at the same time, gives him an opportunity to acquire basic on-the-job experience. I've participated in a great many conferences that have included the exciting kind of give-and-take discussions that often occur between the somewhat impatient young executive and the slightly set-in-his-ways older man. The result is generally a valuable synthesis of ideas that beneficially link the present with the future.

In his new job, the young man will need every ounce of "individual creativity and independent action" he can muster. Don't forget, he'll be up against some pretty stiff competition from his colleagues. He'll also discover that while corporate life is competitive it is also cooperative. This is not as paradoxical as it sounds. People in a business are there to achieve a common objective and this can only be done when they work together. Obviously, the individual competes for attention, recognition, and the rewards of promotion. But even in this atmosphere he finds that he cannot operate without cooperating—even with his competition.

This kind of competition is good. It brings out the best in a man. Prompts him to devote that extra measure of energy or study to make him just a little better than the man next to him; able to help just a little bit more than the others who are helping the organization. These are steps he must take on his own initiative.

It's not always easy—but, in my opinion, that's where the challenge lies; that's what puts the spring in your step. At times, an individual will have to stand up to out-dated policies and managers who show no foresight. Point out what's wrong and, more importantly, show why. This is an important thing—it's essential for the growth of the individual and the corporation.

When a man has this attitude about his career, his age is unimportant. He'll be recognized where he's 24 or 64.

Robert W. Galvin  
Chairman, Motorola, Inc.



Major production

Dramashop will present Shaw play

The upcoming production of the MIT Dramashop will be 'Heart-break House' by George Bernard Shaw. The play will be presented on Thursday, Friday and Saturday, December 8, 9, and 10 and again on the following Friday and Saturday, December 16 and 17.

This is the major Dramashop production for the fall term and there will be an admission charge of \$1.50. Reservations may be made by calling extension 2910.

Curtain will be at 8:30 at the Kresge Little Theatre.

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movie...

Marital mixup figures in Western satire

By Carl M. Abramson  
'Texas Across the River' is a delightful film. It is a bright and witty satire of the so-called 'modern western.' The story fades deep into the background at times, but is never lost. In fact, everything done is done well and in good taste.

Wedding Interruption

The picture opens at the wedding of Don Andrea, a Spanish Duke, and Phoebe, the daughter of a plantation owner. It seems, however, that Phoebe had already accepted another man's ring. The wedding is interrupted by a detachment of the U.S. cavalry numbering three, one of whom is her ex-beau. He is killed in the ensuing action, and Don Andrea, falsely accused of murder, flees to Texas where his bride-to-be is to meet him.

On the way to Texas, Don Andrea meets up with Sam Hollis and Cronk, his sidekick. The rest of the picture is about the inter-

'Texas Across the River' produced by Harry Keller, directed by Michael Gordon, screen play by Wells Root and Harold Greene, starring Dean Martin as Sam Hollis, Alain Delon as Don Andrea, Rosemary Forsyth as Phoebe, Joey Bishop as Cronk, playing at the Savoy Theatre.

action of the noble Don Andrea, the somewhat less noble but more realistic Sam Hollis and the 'chicken' Indian Cronk. Finally, in Moccasin Flat, all the strings are tied up — Hollis gets Phoebe and Don Andrea gets Lonetta, an Indian girl whose life he saved.

Cool cowboy

Dean Martin as Sam Hollis does a good job in the role. Hollis is different from the typical cowboy; he seems to have just a touch of the coolness and 'devil may care' attitude found in a secret agent type. He reacts to situations of imminent danger with the cowboy equivalent of 'Oh dear.'

Cronk, played by Joey Bishop, produces feelings of warmth —

his character is pervaded with sagacity and cowardice. Don Andrea is the opposite. He is charming and gallant. Danger means nothing to him — 'What is life without honor?' Lonetta counterposes the question: 'What is honor without life?'

The secret of comedy has been rediscovered and incorporated into this film. It attains a balance between the real and the ridiculous which is evidently quite hard to attain.

The purpose of the film is to create a broad satire of the kind you can laugh with rather than lament about. Gordon has fulfilled his objective. All pictures should be done so well. Go see it, if not for the cowboys, the guns or the girls, then for the satire, but go.

Letters...

(Continued from Page 4)  
prove its curriculum in the Humanities and Social Sciences. It appears that public speaking deserves very strong consideration for inclusion in future lists of courses offered, or, perhaps, in lists of courses required. If we expect to produce first-rate engineers and scientists, then we must develop in them an ability to convey their ideas orally to others.

Name withheld by request

Making the Scene

S	M	T	W	T	F	S
			29	30	1	2
4	5	6	7	8	9	10
11	12					

THIS WEEK  
MUSIC

Boston Symphony Orchestra — Gunther Schuller, guest conductor; Dvorak's 'Overture to "Othello," Op. 93, Schubert's 'Symphony in B Minor,' 'Jesu' 'Symphony No. 4' (with the New England Conservatory Chorus, John Oliver, acting conductor); Nov. 29, 8:30; Symphony Hall.  
Boston Symphony Orchestra — Open rehearsal, Charles Munch, guest conductor; Dec. 1, 7:30; Symphony Hall.  
Boston Symphony Orchestra — Charles Munch, guest conductor; Faure's 'Suite from "Pelleas et Melisande," Op. 80, Honegger's 'Symphony No. 2, for String Orchestra,' Shubert's 'Symphony No. 2, in B-flat major,' Ravel's 'La Valse'; Dec. 2, 2 pm, Dec. 3, 8:30 pm; Symphony Hall.  
Cambridge Chorale — Campbell Johnson, director; Arcadelt's 'Missa Noe Noe,' Buxtehude's 'Ihr Lieben Christen,' Pinkham's 'Christmas Cantata,' Poulenc's 'Motets'; Dec. 4, 8 pm; First Church in Cambridge, Garden and Mason Streets, free.  
Cambridge Civic Symphony Orchestra — D. Haydn's 'Concerto in C for Cello and Orchestra,' Foot's 'Suite in E, Op. 63 for Strings,' Tchaikovsky's 'Rococo Variations, Op. 33'; Dec. 4, 8:30 pm; Sanders Theatre; \$1, \$1.50, \$2, \$2.50.  
Folk Music — Pete Seeger; Dec. 3, 8:30 pm; Back Bay Theatre; tickets at box office.  
Gardner Museum — Mary Murtaugh, piano; Shubert's 'Impromptu in G flat major, Op. 90,' Nicholas Van Slyck's 'Twelve Canzons (1966)'; Nov. 29, 3 pm.

Gardner Museum — Bruno DiCecco, cello, Leonard Seiber, piano; Torelli's 'Sonata in G major,' Webern's 'Drei Kleine Stucke,' Mozart's 'Sonatina No. 2, in A major'; Dec. 1, 3 pm.

Gardner Museum — Bruno DiCecco, cello, Leonard Seiber, piano; three Beethoven sonatas; Dec. 1, 8:45 pm.

Gardner Museum — Harvard Freshman Glee Club and the Radcliffe Freshman Chorus present compositions by Buxtehude, Thompson, Lubeck, and Handel; Dec. 4.

MIT — Joseph Silverstein, guest soloist and MIT Symphony Orchestra; Beethoven's 'Violin Concerto,' Johan Roman's 'Drottningholms-Musique,' Leos Janacek's 'Sinfonietta'; Dec. 4, 8:30 pm; Kresge; \$1.

New England Conservatory — Opera Theatre; 'Hansel and Gretel'; Dec. 2, 7:30 pm, Dec. 3, 3 pm, Dec. 3, 7:30 pm; Brown Hall; \$2 (adults), \$1.

THEATRE

Boston University — Albee's 'The Zoo Story,' Nov. 30, Dec. 1, 8:30 pm; George Sherman Union; \$1.50.  
Theatre Company of Boston — Opening of John Arden's 'Armstrong's Last Goodnight'; Nov. 30-Dec. 18.

MISCELLANEOUS

Arlington Street Church — 'Dissent and Civil Rights under Fire,' discussion; Dec. 6, 8 pm; \$1.

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Kresge performance

# Silverstein plays concerto with Symphony orchestra

Joseph Silverstein, concertmaster of the Boston Symphony Orchestra, will join the MIT Symphony Orchestra as guest soloist in a performance of the Beethoven Violin Concerto at a concert in Kresge Auditorium at 8:30 pm Sunday, Dec. 4. The concert will be the first of the season for the MIT Symphony.

The concert will include two Boston premieres: the 'Drottningholms-Musique' by the 18th century Swedish composer Johan

Helmich Roman, and the 'Sinfonietta' by the contemporary Czech composer Leos Janacek.

Conductor David Epstein, associate professor of music at MIT, learned of the 'Drottningholms-Musique' while doing research in orchestral repertoire in Sweden during the past summer.

Mr. Silverstein, a member of the Boston Symphony since 1955, has been a recipient of the Naumburg Award and a winner in the Queen Elizabeth of Belgium International Violin Competition.

Tickets may be obtained at the door only and are priced at \$1.

## Professor Gray taught EE as grad student

(Continued from Page 1)

they form a community and make themselves heard."

Second, there was no Burton House or Bexley Hall thirteen years ago. Although fraternities were about the same size, a larger fraction of the undergraduates were commuters and many others placed much more reliance on apartments. At that time "Dormitories were literally dormitories—places to sleep." Today, Professor Gray observes, "There is evolving in the dormitories the same kind of community spirit and concern for the nature of living that has traditionally characterized fraternities. Dormitories have become far more than dormitories—they are residences."

As a graduate student, Professor Gray was involved in teaching all the basic electrical engineering courses (6.01 through 6.08). Since then he has taught a graduate course in semiconductor devices and the undergraduate sequence "Principles of Transistors" (6.341-6.342). Last year he extensively revised the course "Introductory Circuit Theory II" (6.02) and is the lecturer for that course during the Spring terms.

Petricone's photographs

## exhibited until Christmas

Starting tomorrow and continuing through December 21, the MIT Creative Photography Gallery will present an exhibition of photographs by Paul Petricone. The Gallery is located on the third floor of the Armory Building, 120 Massachusetts Avenue.

## Cambridge Civic Symphony Orchestra

Victor Manusevitch, Music Director

CONCERT—Sanders Theatre, Harvard—Sunday, Dec. 4, 8:30 p.m.

### PROGRAM

Mehul ..... Symphony No. 2 in D Major  
Haydn ..... Concerto in C for Cello and Orchestra  
Foote ..... Suite in E Major for Strings  
Tchaikowsky ..... Variations on a Rococo Theme

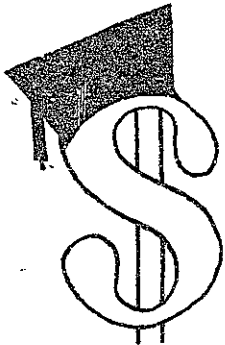
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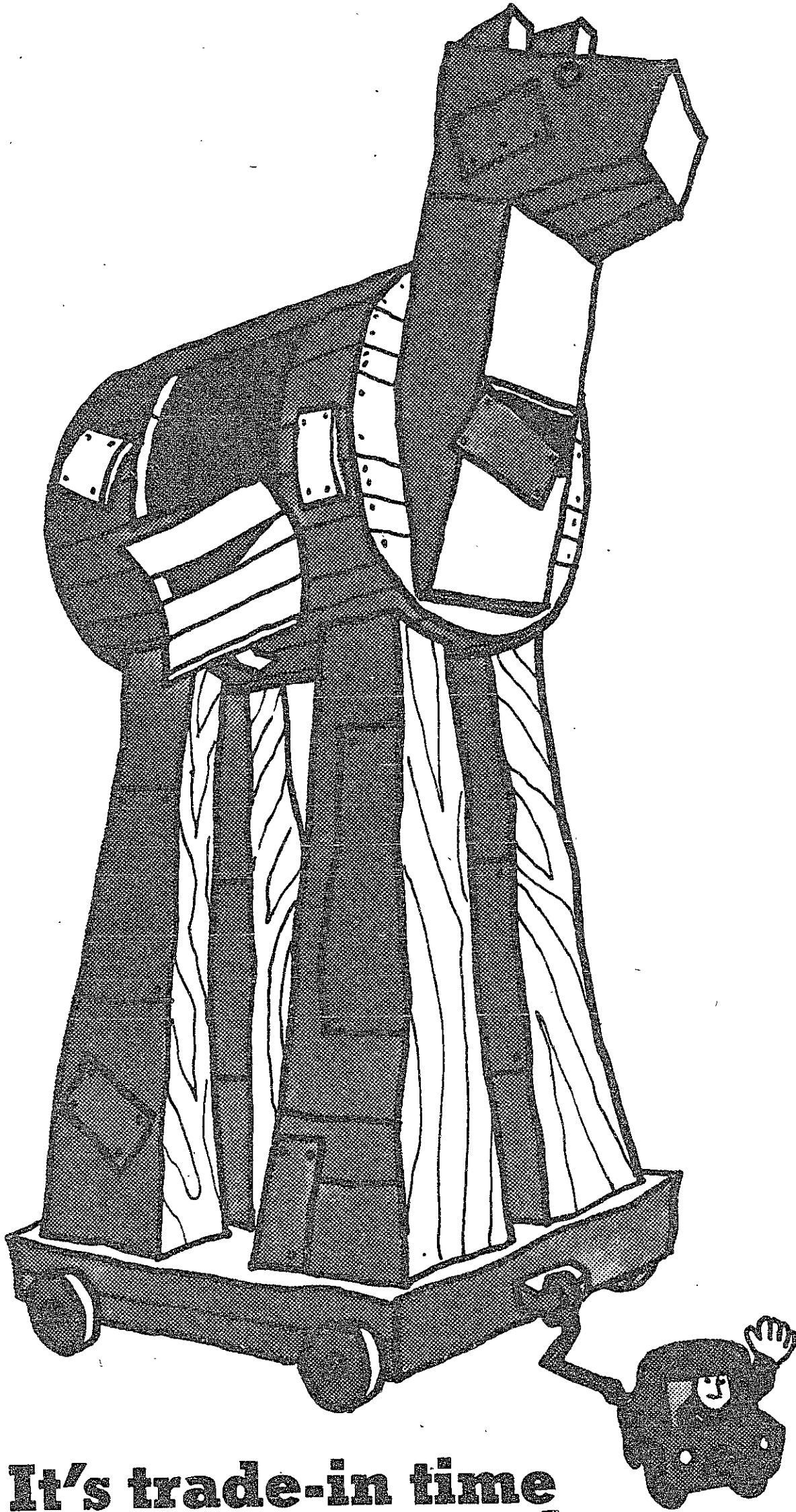
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Sure, it can happen. If a guy or gal wants to hide, or just get by, or not accept responsibility, or challenges.

We're not omniscient enough or stupid enough to speak for all business, but at a company like Western Electric, bright ideas are not only welcome, they are encouraged. And no door is shut. Create a little stir, go ahead, upset an old applecart (we replace shibboleths at a terrific pace — we have to as manufacturing and supply unit of the Bell System — in order to provide your Bell telephone company with equipment it needs to serve you.)

There's an excitement in business. True, we're in it to make a profit, but working to

find new and better ways to make things that help people communicate is very rewarding and satisfying. Did you ever hear these wry words of Oliver Wendell Holmes? "Never trust a generality — not even this one."

That's how we feel about the generality that claims you'll just become a little cog in a company like Western Electric. You might, of course, but if you consider yourself an individual now, odds are 10 to 1 that you'll keep your individuality. And cherish it. And watch it grow. Even at big, big Western Electric.

You know, that's the only way we'd want you to feel. If you feel like coming in with us.



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## Opener Thursday

# Cagers drop Vermont in 2 pre-season contests

By John Kopelow

In two scrimmages against Vermont University over the weekend the Beavers looked quite sharp for this early in the season rolling up victories by scores of 90-78 and 73-46. As was the case throughout most of last season, Alex Wilson '67 and Dave Jansson '68 were the big guns offensively for Tech. The two forwards combined for 55 points in Friday evening's contest and 32 points on Saturday.

Big Bob Hardt's '67 return to the center position, after missing most of last season due to illness, enabled the 6' 5" Wilson to play from a forward spot from which he picked up many baskets on drives in the first game. Despite getting into early foul trouble, Alex scored 31 points to lead both teams.

In that first game, which was dominated by MIT's powerful offense, Jansson contributed 24 markers including 10 field goals, most coming on long, arching jump shots. Hardt rebounded well off both boards and scored 14.

Tech's defense, which was ragged in the first game, resulting in a good deal of unnecessary fouling, tightened up in the contest Saturday. The twin backline combination of Bob and Ray Ferrara '67 started both games and was a constant bother to the Vermont offense.

Jansson topped all scorers on Saturday with 18, while Wilson and Hardt were held to 14 and 9 respectively. Guard Roy Talus '67 provided a lift to the MIT attack, scoring 10 and playing an alert all-around floor game.

The 1966-67 campaign will open this Thursday evening when the Beavers go against Trinity College in Hartford, Conn. A win over Trinity would be especially sweet to the Beavers, not only to get the regular season off on the right foot, but also to avenge the



Photo by Jeff Reynolds  
Center and co-captain Bob Hardt '67 lays one in for two points. Hardt counted 14 points in the 90-74 win over U. of Vermont.

84-79 loss to Trinity in last year's season opener. Tech's first home game is this Saturday against Wesleyan.

After a month of daily practices and several recent scrimmage games, the Tech cagers are anxious to see just how far they can go, for if they prove to be the equal of such strong opponents as Lowell Tech, Assumption and Northeastern, they have a good chance for gaining a regional NCAA tournament berth in March.

With four of five starters returning from last year's team — Seniors Alex Wilson, Bob Hardt and Bob Ferrara, and junior Dave Jansson — Coach Jack Barry has been able to spend little practice time reviewing fundamentals, instead of concentrating on how best to utilize the particular skills of each player.

# Ruggers split in 7-a-sides tourney

By Dick Sidell

The MIT Rugby Club closed out its fall season Saturday. Tech sent two teams to the New York Rugby Club Seven-a-Side tournament in New York.

The MIT "A" side downed Duke 15-8 but then lost to Boston Rugby Club 5-0 in the single elimination tourney. The MIT "B" side lost to Old Blue "B", a New York Club, 13-8 in a preliminary round.

Seven-a-Sides is played on a standard size pitch with the usual rules, however, each side has only seven players instead of the usual fifteen. The halves are shortened from thirty-five minutes to seven minutes. The resulting game is a wide open running game. Thirty-five schools and clubs were represented by forty-one sides. Duke, North Carolina State, Pitt, and two clubs from Montreal entered.

## "A" wins first round

The MIT "A" side won its first game by out-hustling Duke. In the middle of the first half, hooker Tom Sanford picked up a loose ball and passed to fly-half Ted Kelly who carried the ball several yards and then kicked it over the heads of Duke's seven. He then recovered the ball on the Duke fifteen and carried it in for a try. Scrum half Jim Ashton made the conversion to put the Tech ruggers out in front 5-0. Two minutes later prop-forward Mike Frye '67 pulled the ball out of a loose ruck and carried it ten yards before being run out of bounds. The Engineers won the line out. Ashton passed to Kelley who hacked the ball to the ten, recovered it, and went in for his second try. Ashton converted to make the score 10-0.

Duke rallied early in the second half as they scored on a fifty yard play from a set scrum and then converted to make the score 10-5. MIT kicked off to Duke, and Duke ran the ball back 75 yards for their second try. The conversion attempt was short and the score was 10-8. In the closing minute, Ashton took the ball from a set scrum on the forty, ran around the blind side, broke one tackle

with a well executed straightarm, spun off a second tackle, and ran thirty yards down the sideline for a try. The conversion was good and MIT won 15-8.

In the second round of the tournament, MIT was paired against the strong Boston Rugby Club. The first half was scoreless, although both sides had several opportunities to score. The play moved rapidly up and down the field as both sides demonstrated good kicking ability. Jim Ashton broke into the clear on a blind-side run from the fifty, but was pulled down inside the ten. Boston was awarded a penalty kick from the engineer twenty-five, but it was no good.

The second half looked like a rerun of the first until Dave Koch (MIT '62 now playing for BRC) carried the ball seventy yards on a play from a line out for the only score of the game. MIT continued to play well but was not able to score. The final result (BRC 5, "B" 0).

MIT 0) gave the Tech ruggers a piece of an eight way tie for ninth place.

## "B" drops only game

MIT's "B" team played its first and only game against the Old Blue "B". The pitch was a sea of slimy mud except for the touch lines. Tech seemed to be winning in the first half as they held the Old Blue "B's" scoreless while missing on several scoring chances. Prop Tom Fortman carried the ball and 5/7 of the Old Blue side over the try line, but before he could down the ball, he was carried back out for no try. The game was scoreless at halftime. In the second half, the Old Blue "B" caught the Tech "B" backs flatfooted as they ran a reverse and blind side run sixty yards for a try. They scored two more tries on touchline plays to make the final score Old Blue "B" 13, MIT "B" 0.

## First bout against UMass

# Skaters open Saturday: face rebuilding season

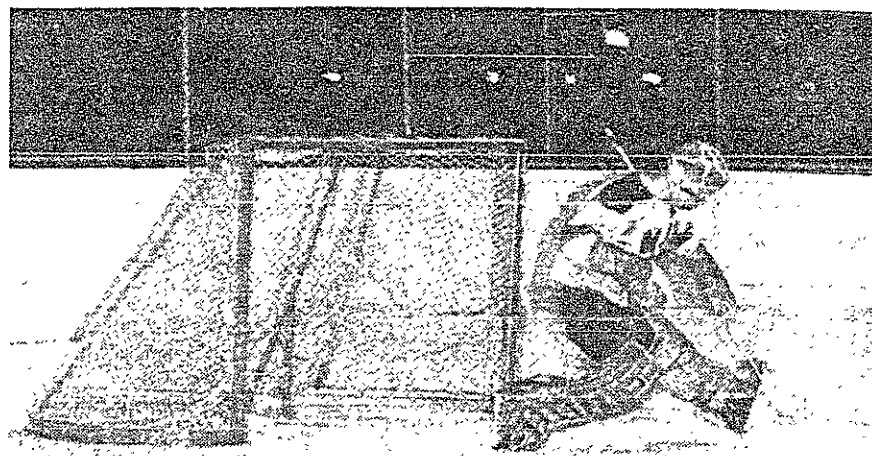


Photo by Jeff Reynolds  
Steve Eriksen '69 comes up with a save in a practice last week. Eriksen is battling Carleton Bryant '67 for the starting slot. The skaters open their season Saturday, playing UMass here at 7:00 p.m.

By Steve Wiener

With only four starting lettermen returning from last year, the varsity hockey team faces a largely rebuilding season. Although the squad lacks experience, it has the depth which should enable coach Ben Martin to regularly start three offensive lines.

Leading the way for the skaters will be captain Bob Smith '67, Dennis Coleman '68, Clayton Satow '68 and Mike Harris '68.

Smith, who will be the bulwark of the defense of the ice squad, will team with Tom Newkirk '67 to protect the home ice. Coleman and either Bob Damon '67 or Mike Bruce-Lockhart '69 who starred for the frosh last season will form the second defensive unit.

Satow, who has looked particularly impressive after recovering from an ankle injury, and Harris, who has improved from last season when he was third in scoring for Tech, will form a formidable scoring punch on the first line. Flanking center Harris on the other side will be either Mike Nescheleba '69 or Mike Zuteck '67.

On the second line, Larry Hall '67 will be centering for Don Bosack '67 and either Pete Eloranta '68 or Scott Rhodes '69. Bill Farrow '69, Carl Brainard '69 and Bruce Leslie '69, are candidates for a third line which should give a tremendous boost to the whole offense.

Defending the goal for Tech will be Carleton Bryant '67 or Steve Eriksen '69, who have both been impressive in practice.

The season opens at home Saturday night, December 3, against UMass. The seventeen game schedule featuring a round-robin tournament against Babson, Wesleyan and the Air Force Academy, also includes such opponents as Holy Cross, Lowell Tech, WPI, Connecticut, Bowdoin, Amherst, Hamilton, Trinity, and Penn.

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## 7 lettermen return

# Sophs bolster swimmers

By Tony Lima

With seven lettermen returning from last year's 5-8 squad, Coach Charlie Batterman can look forward to a good season for his varsity swimmers. The team also inherits last year's frosh squad, who compiled an 8-3 record while rewriting the record books.

Leading the mermen will be John Preston '68, captain, who swims breaststroke. John appears to be the number one man in his stroke this year, but he will be facing a stiff test from two sophomores, Tom Nesbitt and Rich Dorman.

In the freestyle, several combinations exist. For the 50 yard, Batterman will go with Mike Crane '67, last year's captain. The other 50 spot will probably

go to Bill Stage '69, holder of the freshman record. Stage also will get the nod in the 100, along with John McFarren '68. These two are expected to provide numerous sweeps in the event. However, they will face competition from several people. Notable among them are John Merrill '69, Lee Dilley '69, Kent Attridge '69, John Wrigley '67 and Jim Lynch '69. In the 200 and 500, McFarren will probably fill one spot in the 200. John set the current school record last year. Joining him in the two events will be Dave Benbassat '68, Bill Carson '69, Lee Dilley and Mike Perloff '68. If necessary, Batterman can also call on sophomore Luis Clare, who holds the frosh record in the 400.

The butterfly will be a question mark for the team. Steve Mullinax '69 heads a group of four trying for the two open spots. The other three are Bob Dixon '68, Pepe Rosales '69 and George Powch '69.

## Backstroke critical

The backstroke stands to be the weak spot for the mermen. Luis Clare could be the key here. He is the holder of the frosh record and presents a real threat to the 11-year old varsity record. He can expect a strong back-up from Steve Mullinax and Bill Wagner '69.

In the diving, Dan Gentry '68 is returning from a second-place finish in the New England last year. He can look to Jon Frost '69 for support. Both are newcomers to the varsity, and could provide needed help in a key position.

The team can look to the future if plans go awry this year. Two-thirds of the squad are sophomores, and only two seniors will be lost to graduation this spring. They face their first test Saturday at Bowdoin in what promises to be an exciting kickoff to the season.

# Intramural hockey season begins; swimming meet set for Sunday

After the short rest for Thanksgiving, the intramural season reopened for a heavy spurt to Christmas.

Along with IM basketball, hockey and bowling seasons get into full swing this week. The IM swimming meet is set for this Sunday with preliminaries taking place yesterday and Thursday.

The intramural hockey season opened yesterday with three games being played. The season will last until the beginning of March, playoffs starting about February 15.

With a tight race already developing, IM basketball looks for three thrilling weeks before the Christmas break. Burton "A" and AEPi in League I and Fiji and Lambda Chi in League II will put their undefeated records on the line this week.

The Student Center bowling lanes will host the IM bowling tournament this year. Games will be held each evening (Sunday through Thursday) at 5:00.

## On Deck

**Wednesday, November 30**  
Squash (V)—Adelphi, here, 7 pm  
Wrestling (V)—Boston College, here, 7:30 pm  
Wrestling (F)—Boston College, here, 6 pm  
**Thursday, December 1**  
Basketball (V)—Trinity, away, 8:15 pm

## Tech hosts Dartmouth in dual gymnastic meet; seven events planned

The MIT Gymnastics Club will host Dartmouth in a dual meet scheduled for 2:00 pm Saturday, December 3, in the duPont Gymnasium. The seven events will be free exercise, side horse, horizontal bar, parallel bars still rings, trampoline and long horse.

Coach Frank Musker looks for Mike Devorkin '69 on the side horse, John Shaeffer '69 on the parallels, and Dick Hood '70 on the rings to do very well in the meet.